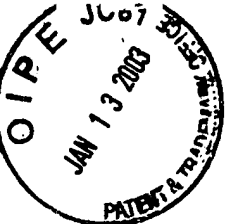


GP120 V1/V2 DOMAIN EPITOPES CAPABLE
GENERATING NEUTRALIZING ANTIBODIES

	HXB2										Case-A2										Most common clade										2nd most common									
	I										I										I										I									
	F										F										F										F									
	G										G										G										G									
	S										S										S										S									
	I										I										I										I									
	T										T										T										T									
	S										S										S										S									
	I										I										I										I									
	R										R										R										R									
	D										D										D										D									
	K										K										K										K									
	V										V										V										V									
	Q										Q										Q										Q									
	K										K										K										K									
	M										M										M										M									
	R										R										R										R									
	G										G										G										G									
	N										N										N										N									
	R										R										R										R									
	Y										Y										Y										Y									
	V										V										V										V									
	S										S										S										S									
	E										E										E										E									
	I										I										I										I									
	D										D										D										D									
	52										52										52										52									
	44										44										44										44									
	185										185										185										185									

FIG. 1



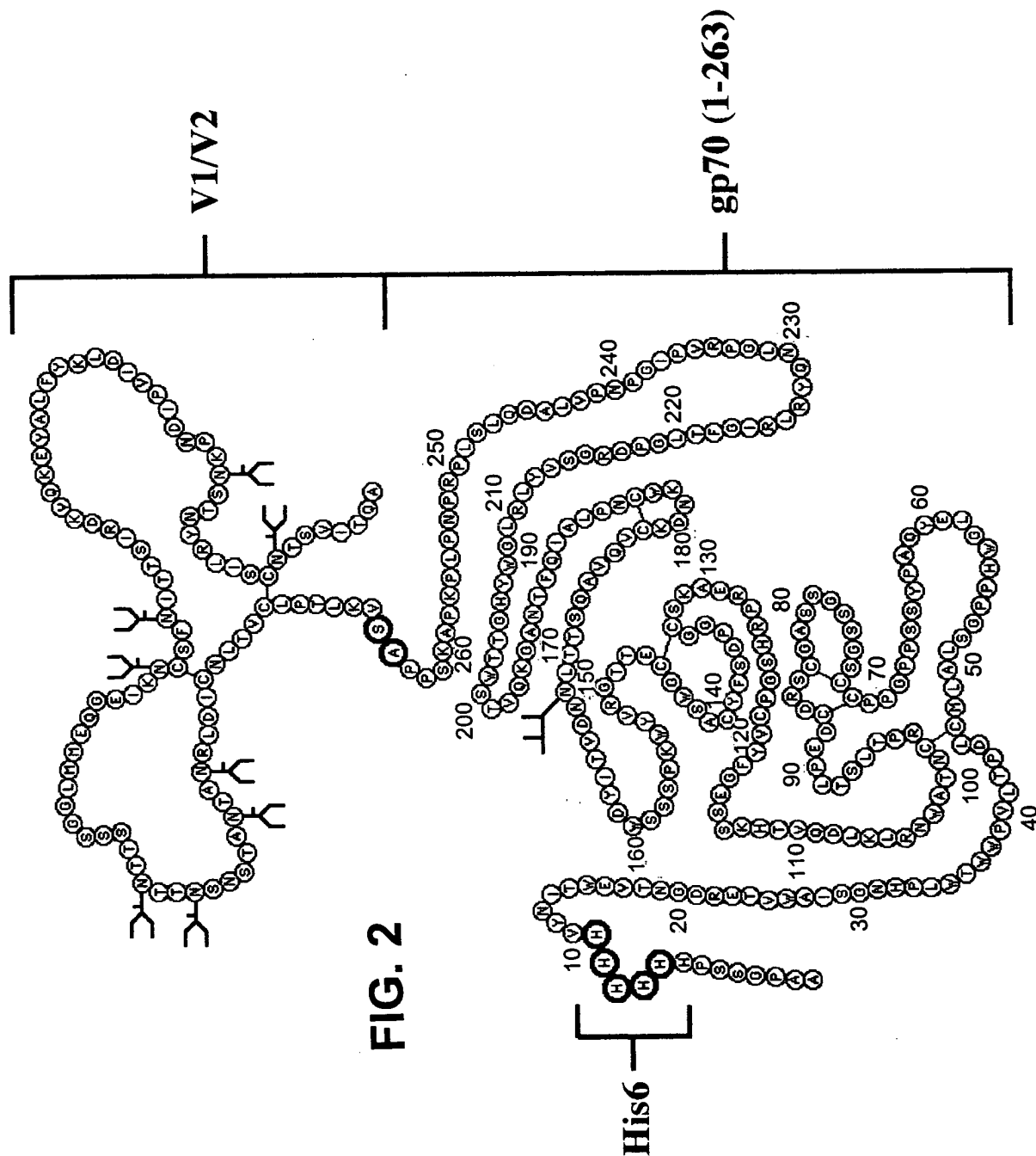
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Case-A2 V1/V2 fusion protein



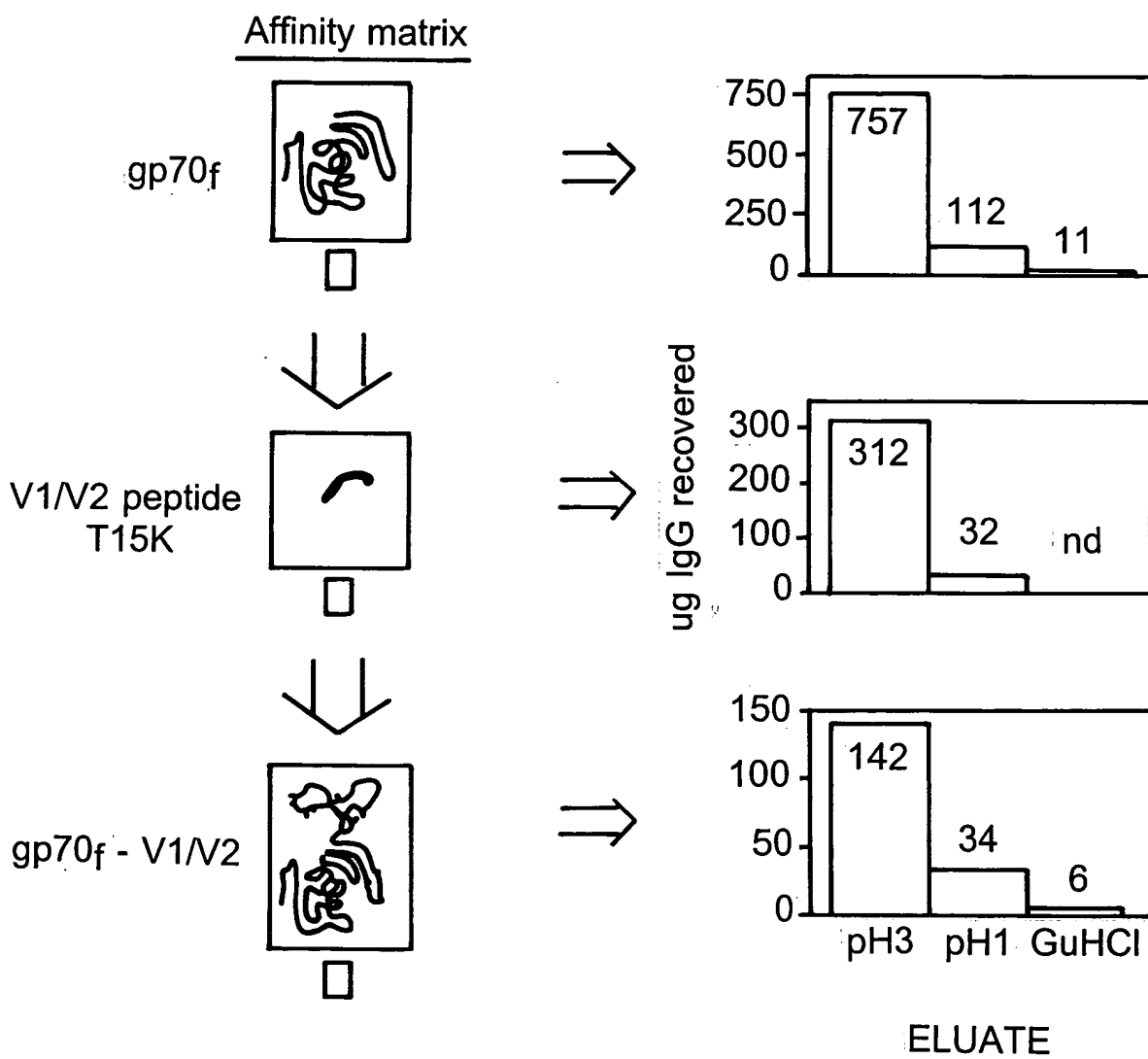
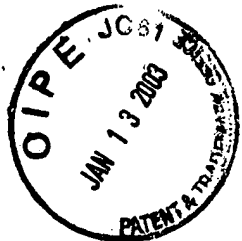
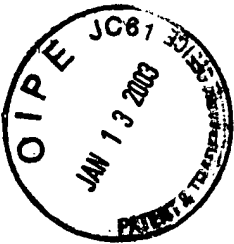


FIG. 3















	V1/V2 Ab fraction						T15K Ab fraction										
	ND50 (ug/ml)						ND50 (ug/ml)										
	BaL	0.24		NHA	0.096		ADA	0.058		Th014B	0.14		Ug/005D	0.03		Th024E	-
	BaL	12.0		NHA	9.9		ADA	3.2		Th014B	0.86		Th024E	3.8		Ug005D	<0.8

FIG. 4B

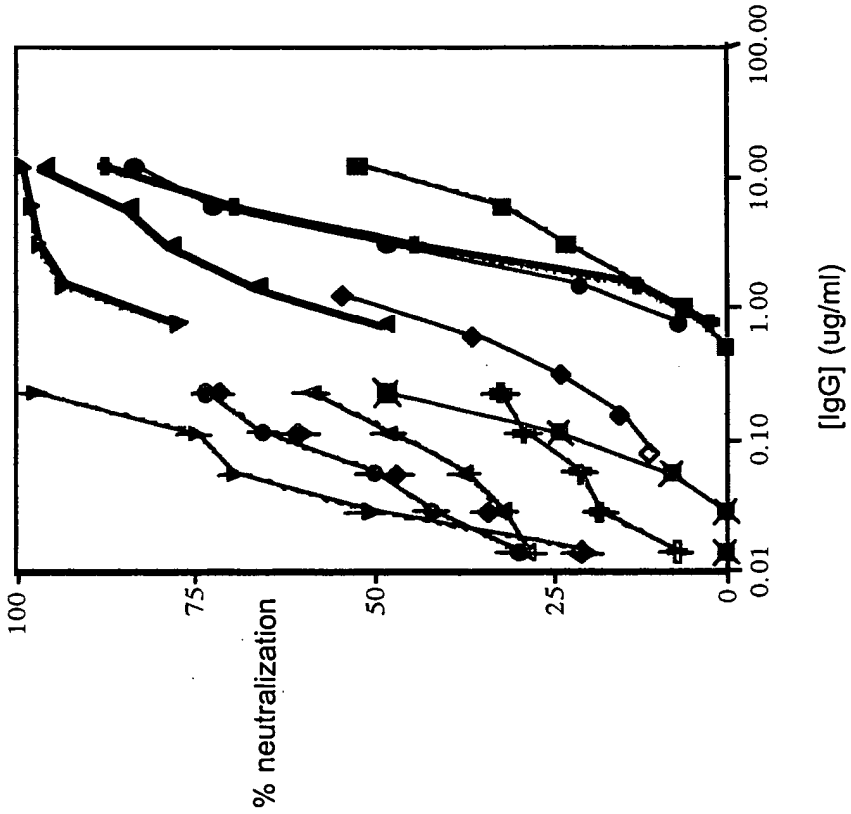


FIG. 4A

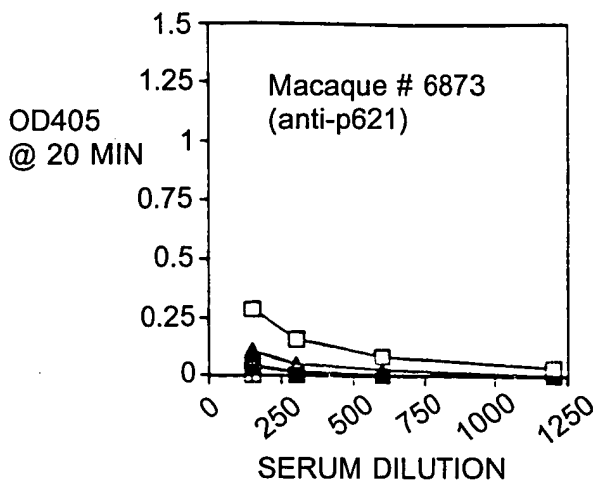
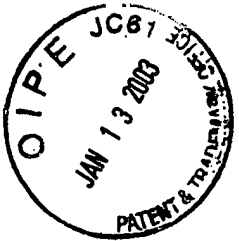


FIG. 5A

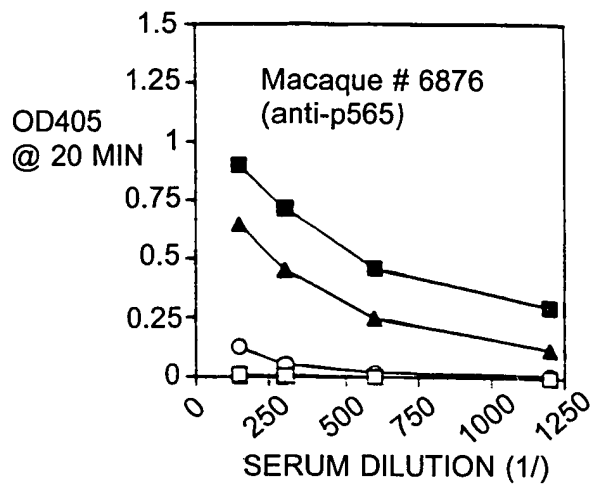


FIG. 5B

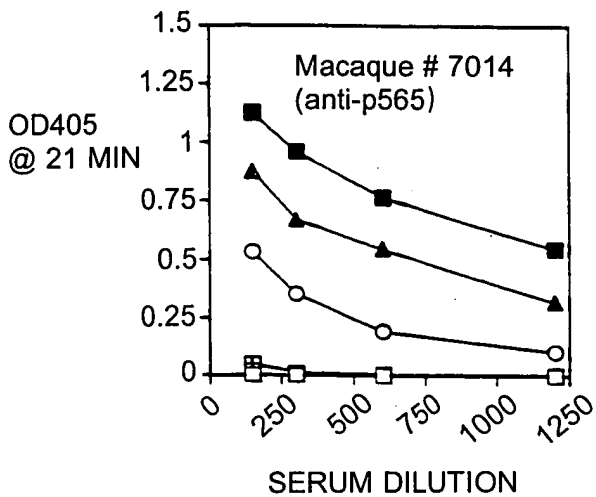


FIG. 5C

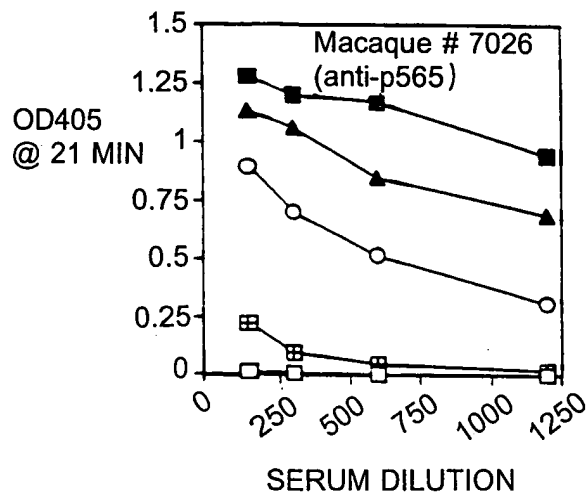
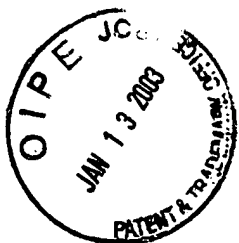


FIG. 5D



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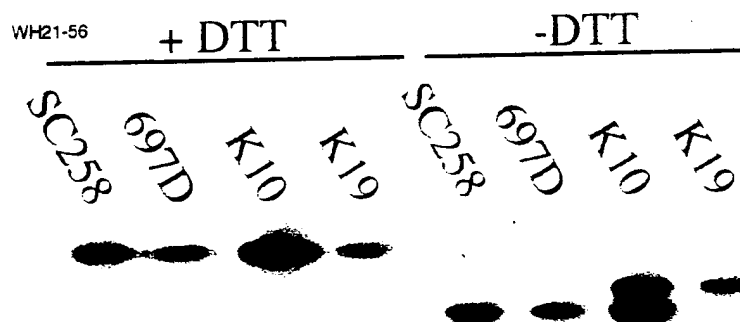
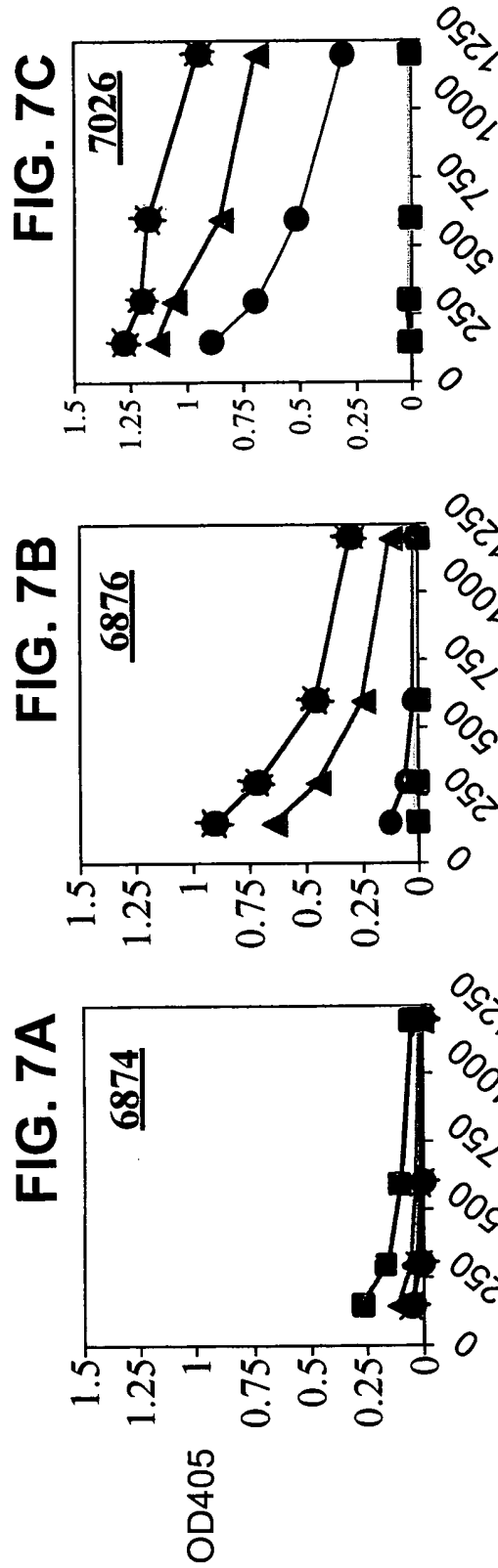
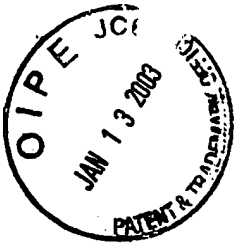


FIG. 6



- p621 gp70 carrier protein
- ★ p565 NA Consensus clade B sequence
- ▲ p599 Brazil clade B V1/V2 protein
- p580 Thai clade E V1/V2 protein

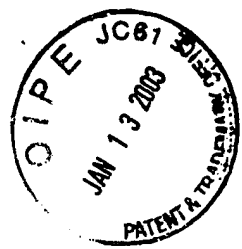


FIG. 8A

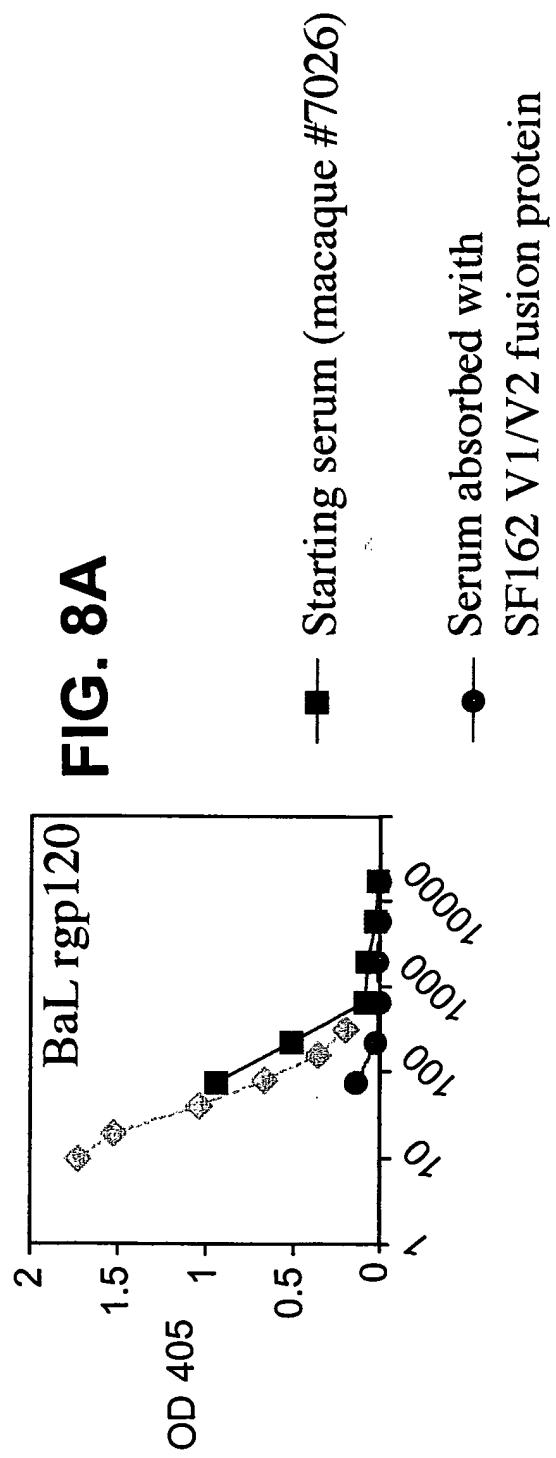
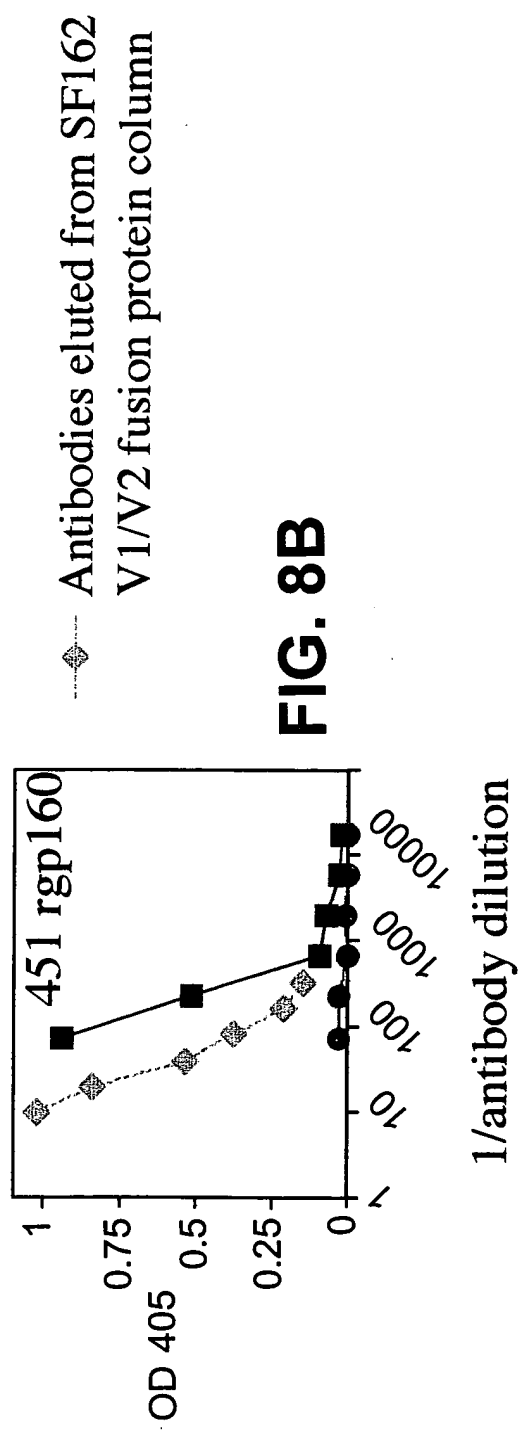
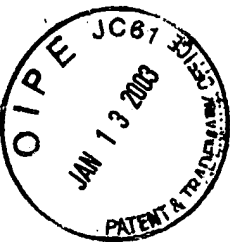
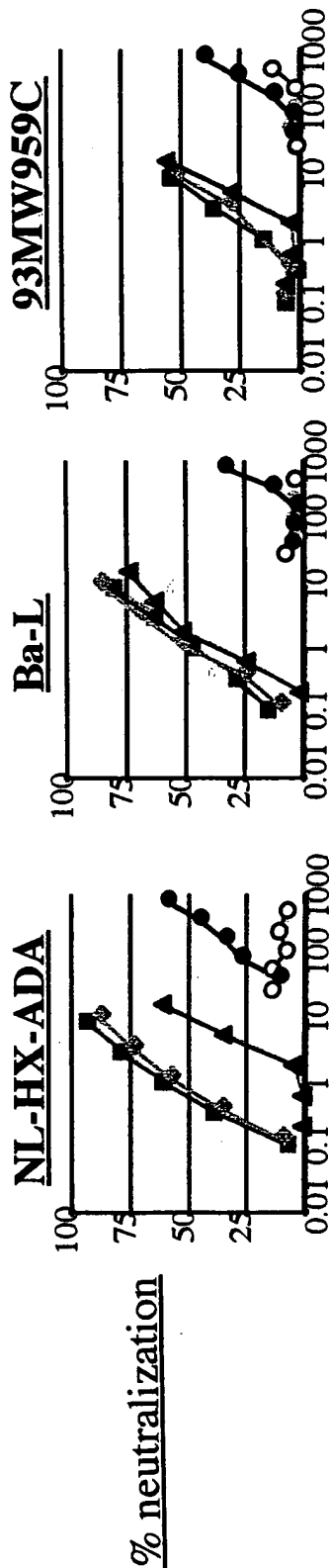


FIG. 8B





Macaque #6876 serum



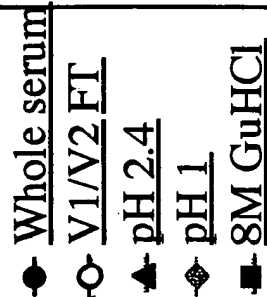
[IgG] ($\mu\text{g/ml}$)

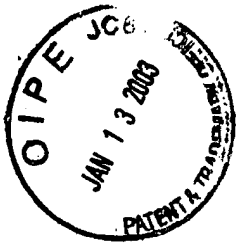
FIG. 9A

[IgG] ($\mu\text{g/ml}$)

FIG. 9B

FIG. 9C





Macaque #7026 serum

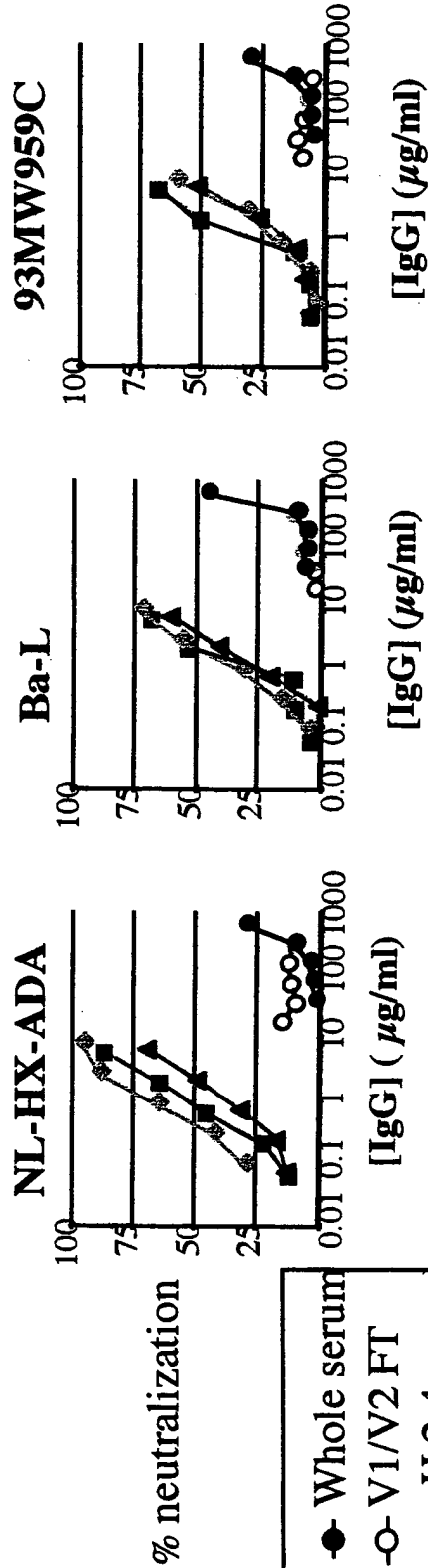


FIG. 10A

FIG. 10B

FIG. 10C

- Whole serum
- V1/V2 FT
- ▲ pH 2.4
- ◆ pH 1
- 8M GuHCl

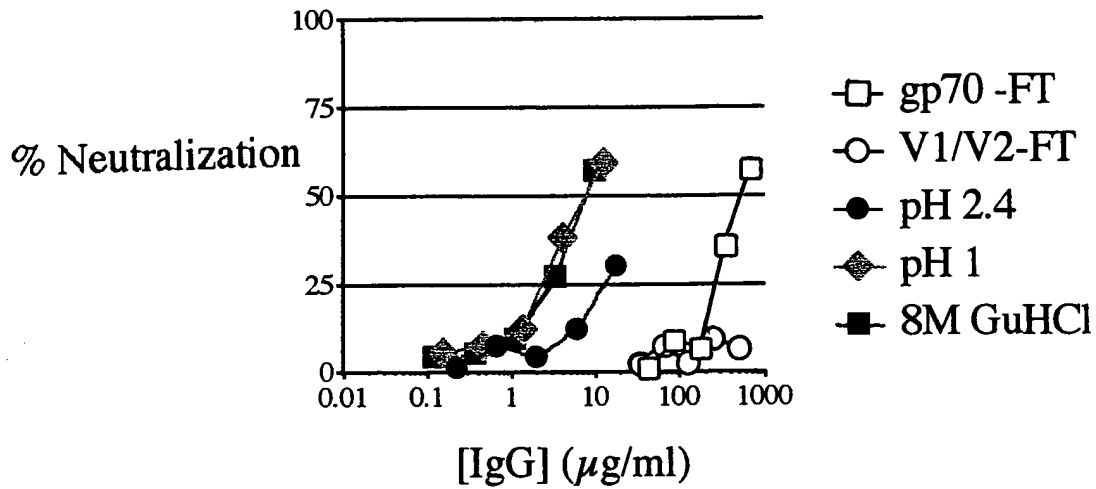
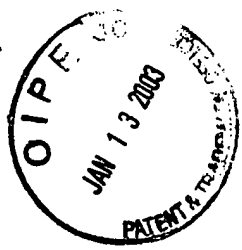


FIG. 11A

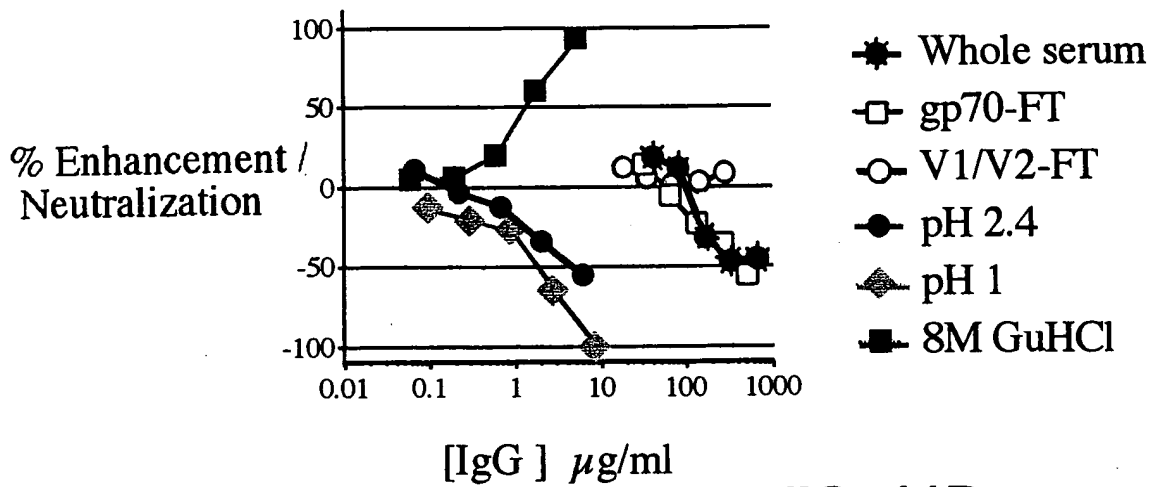
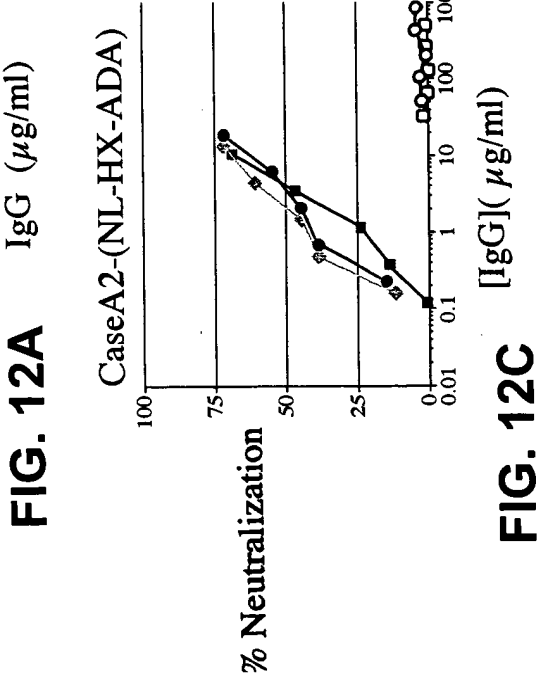
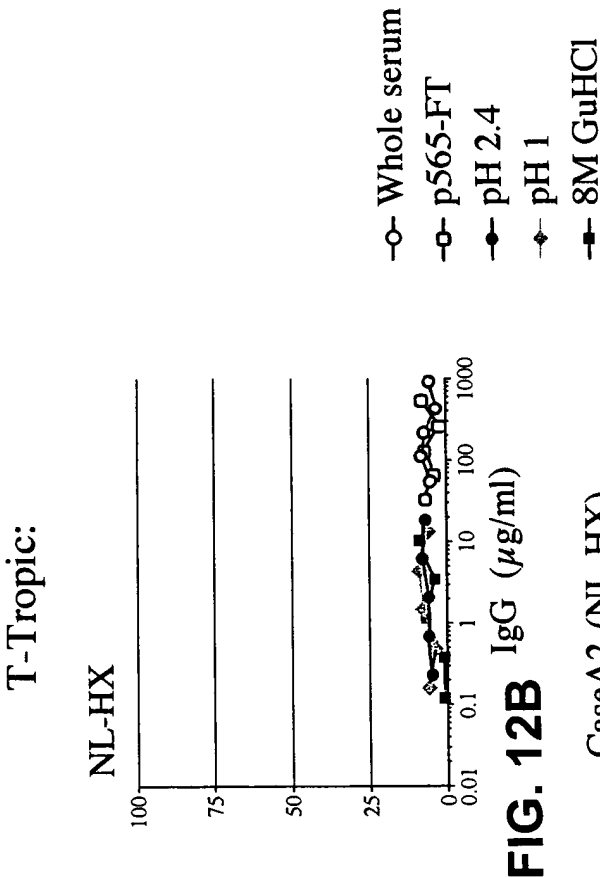
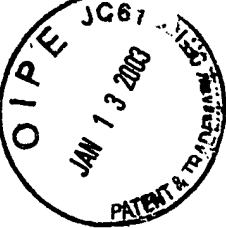


FIG. 11B



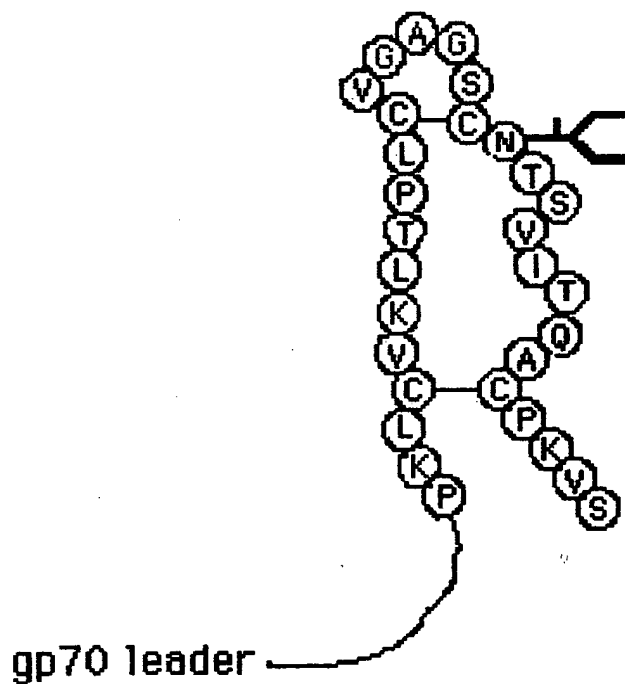


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"V1/V2 stem-only"

FIG. 13